

Application Number: 10/060,780

Docket Number: 10012156-1

IN THE CLAIMS:

1. (Previously Presented) A system for authentication, comprising:
a processor circuit having a processor and a memory;
an authentication system stored in the memory and executable by the processor, the authentication system comprising:
a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task; and
an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter until all of the authentication agents have been requested to authenticate the unauthenticated user parameter and the authenticated user parameter is authenticated by at least one of the authentication agents, unless one of the authentication agents fails to authenticate the unauthenticated user parameter.
2. (Previously Presented) The system of claim 1, wherein the authentication manager waits for a response from each of the authentication agents, each response indicating whether the unauthenticated user parameter has been authenticated.
3. (Previously Presented) The system of claim 1, comprising:
an external authentication service; and
wherein at least one of the authentication agents calls upon the external authentication service to authenticate the unauthenticated user parameter.
4. (Canceled)

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5. (Previously Presented) A system for authentication, comprising:
- a processor circuit having a processor and a memory;
 - an authentication system stored in the memory and executable by the processor, the authentication system comprising:
 - a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task, wherein a parameter type associated with each of the authentication agents; and
 - an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter
 - wherein each of the authentication agents authenticates the unauthenticated user parameter if the unauthenticated user parameter is of the parameter type associated with the respective authentication agent; and
 - wherein:
 - each of the authentication agents transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter;
 - each of the authentication agents transmits a valid response to the authentication manager upon a successful authentication of the unauthenticated user parameter; and
 - each of the authentication agents transmits a valid response to the authentication manager if the unauthenticated user parameter is of a parameter type that is different than the parameter type associated with the respective authentication agent.

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6. (Previously Presented) The system of claim 1, wherein:
each of the authentication agents transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and

each of the authentication agents transmits a valid response to the authentication manager if the unauthenticated user parameter is successfully authenticated.

7. (Previously Presented) A system for authentication, comprising:
a processor circuit having a processor and a memory;
an authentication system stored in the memory and executable by the processor, the authentication system comprising:

a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task;

an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter; and

wherein, upon startup, the authentication manager is unaware of how many of the authentication agents exist in association with the authentication system and the authentication manager discovers the authentication agents.

8. (Previously Presented) The system of claim 7, wherein the authentication manager is configured to generate a lookup table listing each of the authentication agents during startup after the authentication agents are discovered.

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9. (Previously Presented) An authentication method, comprising:
executing a plurality of authentication agents in a computer system, each
of the authentication agents being configured to perform at least one authentication
task; and

sequentially requesting each of the authentication agents to authenticate
an unauthenticated user parameter input into the computer system until all of the
authentication agents have been requested to authenticate the unauthenticated user
parameter and the authenticated user parameter is authenticated by at least one of the
authentication agents, unless one of the authentication agents fails to authenticate the
unauthenticated user parameter.

10. (Original) The authentication method of claim 9, comprising requesting an
external authentication service to authenticate the at least one user parameter.

11. (Canceled)

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12. (Previously Presented) An authentication method, comprising:
executing a plurality of authentication agents in a computer system, each of the authentication agents being configured to perform at least one authentication task;
executing an authentication manager in the computer system to sequentially request each of the authentication agents to authenticate an unauthenticated user parameter input into the computer system;
transmitting an invalid response from at least one of the authentication agents to the authentication manager upon a failure to authenticate a respective user parameter;
transmitting a valid response from at least one of the authentication agents to the authentication manager upon a successful authentication of the unauthenticated user parameter; and
transmitting the valid response from at least one of the authentication agents to the authentication manager if the unauthenticated parameter is of a parameter type that is different than the parameter type associated with the respective authentication agent.
13. (Original) The authentication method of claim 9, further comprising:
transmitting an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and
transmitting a valid response to the authentication manager if the unauthenticated user parameter is successfully authenticated.

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14. (Previously Presented) An authentication method, comprising:

- executing a plurality of authentication agents in a computer system, each of the authentication agents being configured to perform at least one authentication task;
- executing an authentication manager in the computer system, wherein the authentication manager is unaware of how many of the authentication agents exist when the authentication manager is first executed;
- discovering the authentication agents with the authentication manager upon execution of the authentication manager;
- employing the authentication manager to sequentially request each of the authentication agents to authenticate an unauthenticated user parameter input into the computer system; and
- obtaining a response from each of the authentication agents indicating whether the unauthenticated user parameter has been authenticated.

15. (Previously Presented) The authentication method of claim 14, further comprising employing the authentication manager to generate a lookup table listing each of the authentication agents after the authentication agents are discovered upon execution of the authentication manager.

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16. (Previously Presented) A computer program embodied on a computer readable medium and executable by a computer system for performing authentication, comprising:

code that embodies a plurality of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task; and

code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter until all of the authentication agents have been requested to authenticate the unauthenticated user parameter and the authenticated user parameter is authenticated by at least one of the authentication agents, unless one of the authentication agents fails to authenticate the unauthenticated user parameter.

17. (Previously Presented) The computer program embodied on a computer readable medium and executable by the computer system of claim 16, wherein the authentication manager further comprises code that waits for a response from each of the authentication agents, each response indicating whether the unauthenticated user parameter has been authenticated.

18. (Previously Presented) The computer program embodied on a computer readable medium and executable by the computer system of claim 16, wherein at least one of the authentication agents further comprises code that calls upon an external authentication service to authenticate the unauthenticated user parameter.

19. (Canceled)

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20. (Previously Presented) A computer program embodied on a computer readable medium and executable by a computer system for performing authentication, comprising:

- code that embodies a number of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task;

- code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter; and

- wherein each of the authentication agents further comprises:

- code that transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter;

- code that transmits a valid response to the authentication manager upon a successful authentication of the unauthenticated user parameter; and

- code that transmits a valid response to the authentication manager if the unauthenticated user parameter is of a parameter type that is different than the parameter type associated with the respective authentication agent.

21. (Previously Presented) The computer program embodied on a computer readable medium and executable by the computer system of claim 16, wherein each of the authentication agents further comprise:

- code that transmits an invalid response to the authentication manager upon a failure to authenticate the unauthenticated user parameter; and

- code that transmits a valid response to the authentication manager if the unauthenticated user parameter is successfully authenticated.

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22. (Previously Presented) A computer program embodied on a computer readable medium and executable by a computer system for performing authentication, comprising:

code that embodies a number of authentication agents, each of the authentication agents authenticating at least one user parameter by performing at least one authentication task; and

code that embodies an authentication manager that requests each of the authentication agents to authenticate an unauthenticated user parameter; and

wherein the authentication manager further comprises code that discovers the authentication agents upon an initial execution of the authentication manager, the authentication manager being unaware at the time of initial execution of how many of the authentication agents exist that may be requested by the authentication manager to authenticate the unauthenticated user parameter.

23. (Previously Presented) The computer program embodied on a computer readable medium and executable by the computer system of claim 22, wherein the authentication manager further comprises code that generates a lookup table listing each of the authentication agents after initial execution after the authentication agents are discovered.

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